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M. Brian Blake
Proceedings of the 2003 conference on Diversity in computing October 2003
Raw data and processed information are essential to organizations that perform operational
analysis and build simulation systems. In such domains, the dissemination and management of
this information is a daunting task. Not only must this data support a heterogeneous array of
researchers, but also the requirements on this data are constantly changing. To achieve
maximum utility, data of this sort must be made available in distributed locations and offered in
various custom formats. Such approach ...

2 Software analysis and model checking: Eliminating redundancies with a "composition with   77%
adaptation" meta-programming technique
Stan Jarzabek , Li Shubiao
**Proceedings of the 9th European software engineering conference held jointly with 10th
ACM SIGSOFT international symposium on Foundations of software engineering**
September 2003
Redundant code obstructs program understanding and contributes to high maintenance costs.
While most experts agree on that, opinions - on how serious the problem of redundancies really
is and how to tackle it - differ. In this paper, we present the study of redundancies in the Java
Buffer library, JDK 1.4.1, which was recently released by Sun. We found that at least 68% of
code in the Buffer library is redundant in the sense that it recurs in many classes in the same or
slightly modified form. W ...

3 Assurance in life/nation critical endeavors: Biometrics or ... biohazards?   77%
John Michael Williams
Proceedings of the 2002 workshop on New security paradigms September 2002

IPSE DIXIT Biometrics as an array of deployable technologies presumes an elaborate infrastructure, including underlying science that justifies its claims of detection, classification, identification and authentication of individual human identities; particularly of those who are runaways, illegal immigrants, fugitives, criminals, terrorists, and so on. This will now too often be literally a matter of life and death, both for the public and the individuals identified. The "New Security Paradigm" em ...

4   Automatic metadata creation: Automated semantic annotation and retrieval based on sharable   77%
ontology and case-based learning techniques
Von-Wun Soo , Chen-Yu Lee , Chung-Cheng Li , Shu Lei Chen , Ching-chih Chen
Proceedings of the third ACM/IEEE-CS joint conference on Digital libraries May 2003
Effective information retrieval (IR) using domain knowledge and semantics is one of the major challenges in IR. In this paper we propose a framework that can facilitate image retrieval based on a sharable domain ontology and thesaurus. In particular, case-based learning (CBL) using a natural language phrase parser is proposed to convert a natural language query into resource description framework (RDF) format, a semantic-web standard of metadata description that supports machine readable semanti ...

5   Full papers: A case study in software adaptation   77%
Giuseppe Valetto , Gail Kaiser
Proceedings of the first workshop on Self-healing systems November 2002
We attach a feedback-control-loop infrastructure to an existing target system, to continually monitor and dynamically adapt its activities and performance. (This approach could also be applied to "new" systems, as an alternative to "building in" adaptation facilities, but we do not address that here.) Our infrastructure consists of multiple layers, with the objectives of 1. probing, measuring and reporting of activity and state during the execution of the target system among its components and c ...

6   Industry track papers and presentations: product lines: Integrating hundred's of products   77%
through one architecture: the industrial IT architecture
Lars G. Bratthall , Robert van der Geest , Holger Hofmann , Edgar Jellum , Zbigniew Korendo , Robert Martinez , Michal Orkisz , Christian Zeidler , Johan S Andersson
Proceedings of the 24th international conference on Software engineering May 2002
During the last few years, software product line engineering has gained significant interest as a way for creating software products faster and cheaper. But what architecture is needed to integrate huge amounts of products, from different product lines? This paper describes such an architecture and its support processes and tools. Through cases, it is illustrated how the architecture is used to integrate new --- and old --- products in such diverse integration projects as vessel motion control, ...

7   Special issue on the PAPA 2002 workshop: Performance study of dispatching algorithms in   77%
multi-tier web architectures
Mauro Andreolini , Michele Colajanni , Ruggero Morselli
ACM SIGMETRICS Performance Evaluation Review September 2002
Volume 30 Issue 2
The number and heterogeneity of requests to Web sites are increasing also because the Web technology is becoming the preferred interface for information systems. Many systems hosting current Web sites are complex architectures composed by multiple server layers with strong

scalability and reliability issues. In this paper we compare the performance of several combinations of centralized and distributed dispatching algorithms working at the first and second layer, and using different levels of st ...

8 Practical extraction techniques for Java   77%
Frank Tip , Peter F. Sweeney , Chris Laffra , Aldo Eisma , David Streeter
ACM Transactions on Programming Languages and Systems (TOPLAS) November 2002

Volume 24 Issue 6
Reducing application size is important for software that is distributed via the internet, in order to keep download times manageable, and in the domain of embedded systems, where applications are often stored in (Read-Only or Flash) memory. This paper explores extraction techniques such as the removal of unreachable methods and redundant fields, inlining of method calls, and transformation of the class hierarchy for reducing application size. We implemented a number of extraction techniques in < ...

9 Software and document engineering: The relevance of software documentation, tools and   77%
technologies: a survey
Andrew Forward , Timothy C. Lethbridge
Proceedings of the 2002 ACM symposium on Document engineering November 2002
This paper highlights the results of a survey of software professionals. One of the goals of this survey was to uncover the perceived relevance (or lack thereof) of software documentation, and the tools and technologies used to maintain, verify and validate such documents. The survey results highlight the preferences for and aversions against software documentation tools. Participants agree that documentation tools should seek to better extract knowledge from core resources. These resources incl ...

10 Advanced XML technologies and applications: Honey, I shrunk the XQuery!: an XML algebra 77%
optimization approach
Xin Zhang , Bradford Pielech , Elke A. Rundesnteiner
Proceedings of the fourth international workshop on Web information and data management November 2002
A lot of work is being done in the database community on mapping of XML data into and out of relational database systems, specifically, the query processing over such data using XQuery. We discuss our solution, the XML Algebra Tree (XAT), as part of our larger XML management system called Rainbow.Rainbow uses XQuery to describe the loading and extracting of XML data into relational systems and also for the execution of queries against pre-defined XML views of that stored data. The XML algebra tr ...

11 Information retrieval: Knowledge-based extraction of named entities   77%
Jamie Callan , Teruko Mitamura
Proceedings of the eleventh international conference on Information and knowledge management November 2002
The usual approach to named-entity detection is to learn extraction rules that rely on linguistic, syntactic, or document format patterns that are consistent across a set of documents. However, when there is no consistency among documents, it may be more effective to learn document-specific extraction rules.This paper presents a knowledge-based approach to learning rules for named-entity extraction. Document-specific extraction rules are created using

a generate-and-test paradigm and a database ...

12 Supporting structured credentials and sensitive policies through interoperable strategies for   77%
automated trust negotiation
Ting Yu , Marianne Winslett , Kent E. Seamons
ACM Transactions on Information and System Security (TISSEC) February 2003
Volume 6 Issue 1
Business and military partners, companies and their customers, and other closely cooperating
parties may have a compelling need to conduct sensitive interactions on line, such as accessing
each other's local services and other local resources. Automated trust negotiation is an
approach to establishing trust between parties so that such interactions can take place, through
the use of access control policies that specify what combinations of digital credentials a
stranger must disclose to gain acc ...

13 Technical Papers: Applying natural language processing (NLP) based metadata extraction to   77%
automatically acquire user preferences
Woojin Paik , Sibel Yilmazel , Eric Brown , Maryjane Poulin , Stephane Dubon , Christophe
Amice
Proceedings of the international conference on Knowledge capture October 2001
This paper describes a metadata extraction technique based on natural language processing
(NLP) which extracts personalized information from email communications between financial
analysts and their clients. Personalized means connecting users with content in a personally
meaningful way to create, grow, and retain online relationships. Personalization often results in
the creation of user profiles that store individuals' preferences regarding goods or services
offered by various e-commerce merch ...

14 Highly personalized information delivery to mobile clients   77%
Bahattin Ozen , Ozgur Kilic , Mehmet Altinel , Asuman Dogac
**Proceedings of the 2nd ACM international workshop on Data engineering for wireless
and mobile access** May 2001

The inherent limitations of mobile devices necessitate information to be delivered to mobile
clients to be highly personalized according to their profiles. This information may be coming
from a variety of resources like Web servers, company intranets, email servers. A critical issue
for such systems is scalability, that is, the performance of the system should be in acceptable
limits when the number of users increases dramatically. Another important issue is being able
to express highly perso ...

15 On supporting containment queries in relational database management systems   77%
Chun Zhang , Jeffrey Naughton , David DeWitt , Qiong Luo , Guy Lohman
**ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international
conference on Management of data** May 2001
Volume 30 Issue 2

Virtually all proposals for querying XML include a class of query we term “containment
queries”. It is also clear that in the foreseeable future, a substantial amount of XML
data will be stored in relational database systems. This raises the question of how to support
these containment queries. The inverted list technology that underlies much of Information

Retrieval is well-suited to these queries, but should we implement this technology (a) in a separate loosely-coupled IR engin ...

16 XML query forms (XQForms): declarative specification of XML query interfaces   77%
Michalis Petropoulos , Vasilis Vassalos , Yannis Papakonstantinou
Proceedings of the tenth international conference on World Wide Web April 2001

17 PERSIVAL, a system for personalized search and summarization over multimedia healthcare   77%
information
Kathleen R. McKeown , Shih-Fu Chang , James Cimino , Steven Feiner , Carol Friedman ,
Luis Gravano , Vasileios Hatzivassiloglou , Steven Johnson , Desmond A. Jordan , Judith L.
Klavans , André Kushniruk , Vimla Patel , Simone Teufel
Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries January 2001
In healthcare settings, patients need access to online information tha t can help them
understand their medical situation. Physicians need information that is clinically relevant to an
individual patient. In this paper, we present our progress on developing a system, PERSIVAL,
that is designed to provide personalized access to a distributed patient care digital library.
Using the secure, online patient records at New York Presbyterian Hospital as a user model,
PERSIVAL's components tailor s ...

18 Modeling languages versus matrix generators for linear programming   77%
Robert Fourer
ACM Transactions on Mathematical Software (TOMS) June 1983
Volume 9 Issue 2

19 Practical experience with an application extractor for Java   77%
Frank Tip , Chris Laffra , Peter F. Sweeney , David Streeter
**ACM SIGPLAN Notices , Proceedings of the 1999 ACM SIGPLAN conference on
Object-oriented programming, systems, languages, and applications** October 1999
Volume 34 Issue 10
Java programs are routinely transmitted over low-bandwidth network connections as
compressed class file archives (i.e., zip files and jar files). Since archive size is directly
proportional to download time, it is desirable for applications to be as small as possible. This
paper is concerned with the use of program transformations such as removal of dead methods
and fields, inlining of method calls, and simplification of the class hierarchy for reducing
application size. Such “extract ...

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Parallel and Distributed Systems, 2002. Proceedings. Ninth International Confer
, 17-20 Dec. 2002
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[Abstract]   [PDF Full-Text (413 KB)] **IEEE CNF**

2 **Mapping DTDs to object-oriented schemas**
Yangjun Chen; McFadyen, R.; Fungyee Chan;
Web Information Systems Engineering, 2001. Proceedings of the Second Intern
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3 **Path locks for XML document collaboration**
Dekeyser, S.; Hidders, J.;
Web Information Systems Engineering, 2002. WISE 2002. Proceedings of the Tl
International Conference on , 12-14 Dec. 2002
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4 **Implementation issues of a deterministic transformation system for
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Dunren Che;
Database Engineering and Applications Symposium, 2003. Proceedings. Seventl

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5 **Distributed heterogeneous knowledge data base for control system d(
multiagent development and support**
Atanasova, T.; Nern, H.-J.; Hamalainen, M.; Eldin, H.N.;
Intelligent Control, 2000. Proceedings of the 2000 IEEE International Symposiu
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[Abstract]   [PDF Full-Text (368 KB)] **IEEE CNF**

6 **A middleware approach for combining heterogeneous data sources
integration of generic query and predefined function access**
Hergula, K.; Harder, T.;
Web Information Systems Engineering, 2000. Proceedings of the First Internatic
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7 **Proceedings of the First International Conference on Web Informatior
Systems Engineering**
Enabling Technologies: Infrastructure for Collaborative Enterprises, 2000. (WET
2000). Proeedings. IEEE 9th International Workshops on , 14-16 June 2000

[Abstract]   [PDF Full-Text (500 KB)] **IEEE CNF**

8 **Associating and presenting metadata of digital archive objects in virtu
spaces as synchronized multimedia content**
Tanaka, K.; Koiso, K.; Nadamoto, A.;
Digital Libraries: Research and Practice, 2000 Kyoto, International Conference c
13-16 Nov. 2000
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[Abstract]   [PDF Full-Text (608 KB)] **IEEE CNF**

9 **Xyleme, a dynamic warehouse for XML data of the Web**
*Abiteboul, S.; Aguilera, V.; Ailleret, S.; Amann, B.; Arambarri, F.; Cluet, S.; Coi
G.; Corona, G.; Ferran, G.; Galland, A.; Hascoet, M.; Kanne, C.-C.; Koechlin, B.
Niniven, D.; Marian, A.; Mignet, L.; Moerkotte, G.; Nguyen, B.; Preda, M.; Rous*
Database Engineering & Applications, 2001 International Symposium on. , 16-1
2001
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10 Proceedings 2001 International Database Engineering and Applicatio Symposium
Database Engineering & Applications, 2001 International Symposium on. , 16-1 2001

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11 Directions for Web and e-commerce applications security
Thuraisingham, B.; Clifton, C.; Gupta, A.; Bertino, E.; Ferrari, E.;
Enabling Technologies: Infrastructure for Collaborative Enterprises, 2001. WET 2001. Proceedings. Tenth IEEE International Workshops on , 20-22 June 2001
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12 A generic content-management tool for Web databases
Kerer, C.; Kirda, E.; Kurmanowytsch, R.;
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13 Managing heterogeneous ecological data using Morpho
Higgins, D.; Berkley, C.; Jones, M.B.;
Scientific and Statistical Database Management, 2002. Proceedings. 14th Interr Conference on , 24-26 July 2002
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14 Storing and querying multiversion XML documents using durable nod numbers
Shu-Yao Chien; Tsotras, V.J.; Zaniolo, C.; Donghui Zhang;
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15 Remote fieldbus system management with Java and XML
Buhler, D.; Kuchlin, W.;

Industrial Electronics, 2000. ISIE 2000. Proceedings of the 2000 IEEE Internatic
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Blake, M.B.; Liguori, P.;
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17 **An architecture for adaptively replicating cooperative shared objects**
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18 **Proceedings Technology of Object-Oriented Languages and Systems. 38**
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19 **Managing scientific metadata**
Jones, M.B.; Berkley, C.; Bojilova, J.; Schildhauer, M.;
Internet Computing, IEEE , Volume: 5 Issue: 5 , Sept.-Oct. 2001
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